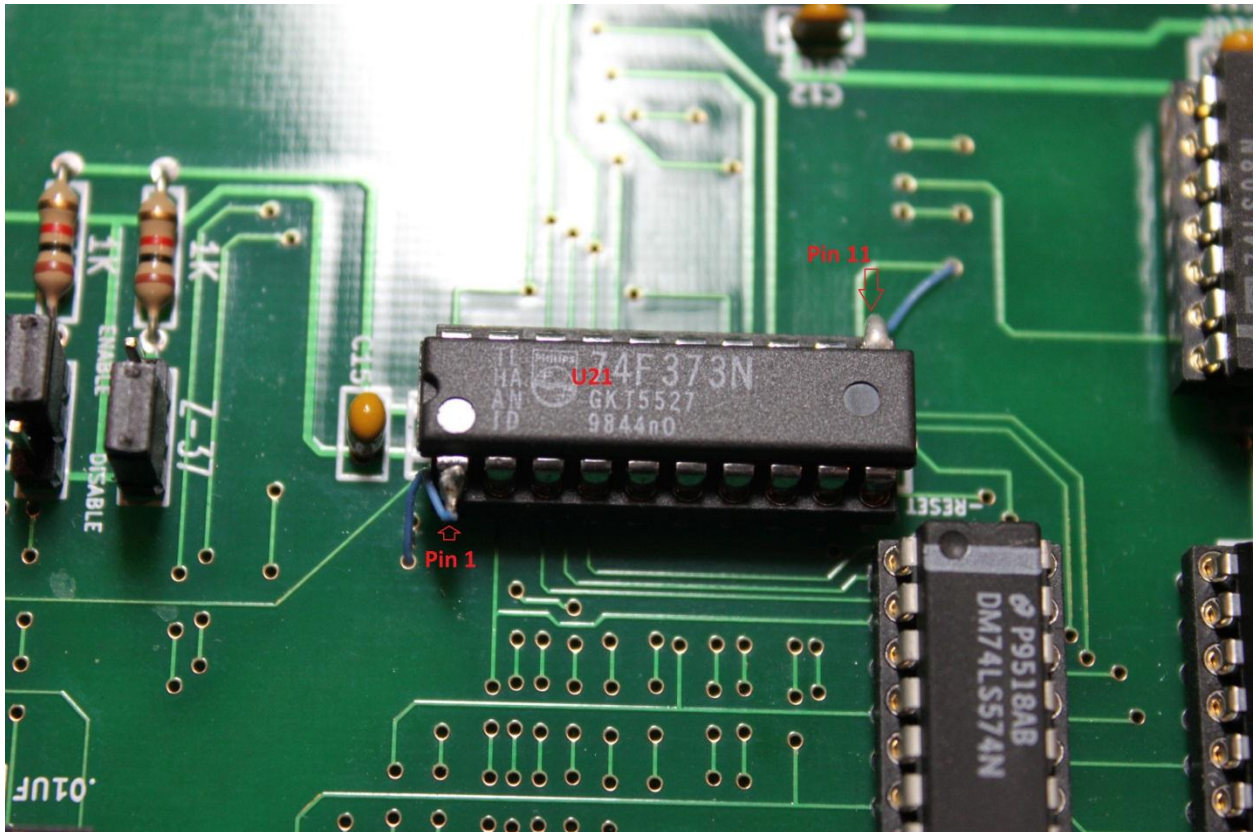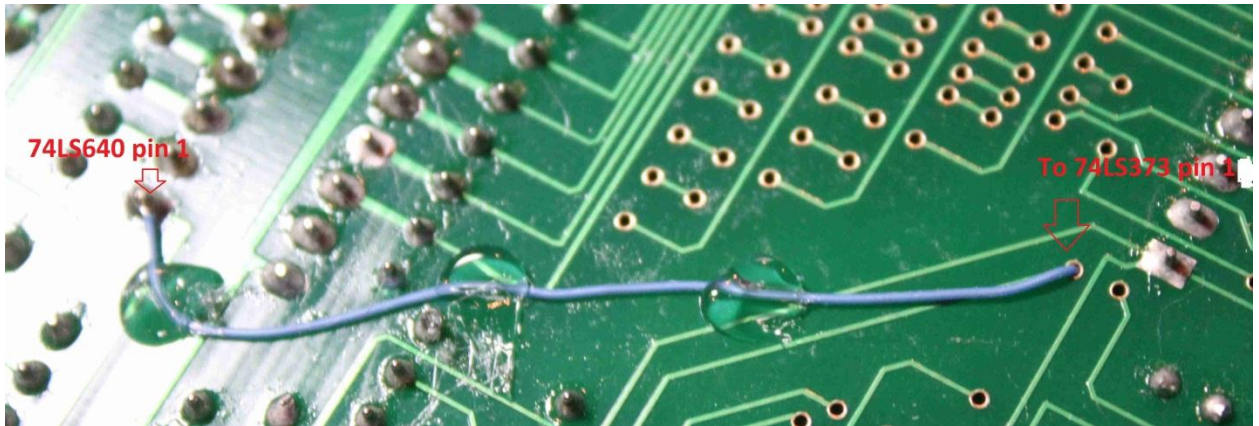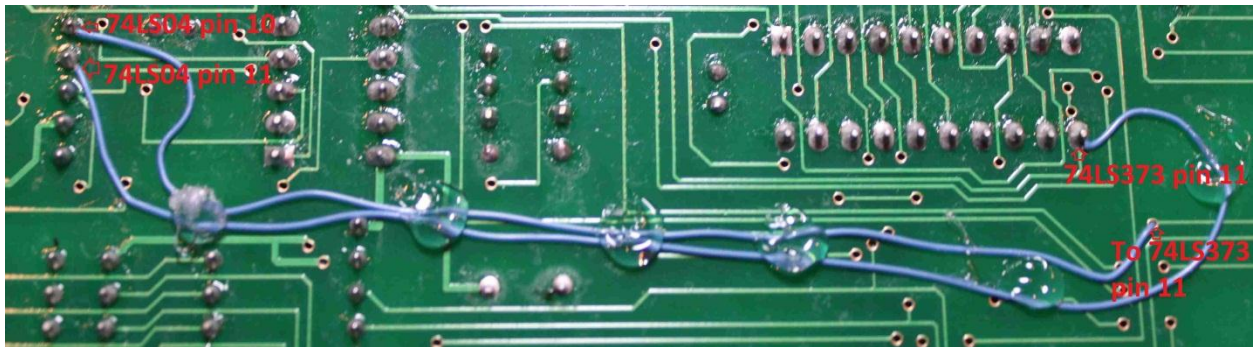# H8-Z67 Rework

1. Removed 74LS273 IC from **U21**.
2. Insert 74LS373 or 74F373 in **U21** position. Bend out pin **1** and pin **11** as shown below. Make sure that pin 1 and 11 does not touch or enter the IC socket.
3. Trim 74LS373 pin **1** and **11** to solder a wire on each pin as shown.
4. Solder a wire to pin **1** and a wire to pin **11** (use wire-wrap cable) as shown.

5. Solder the cable attached to 74LS373 pin 1 to 74LS640 pin 1 (U11).

6. Solder the cable attached to 74LS373 pin 11 to 74LS04 pin 10 (U25).
7. Solder a wire to U25 pin 11 (74LS04). Solder the end of the wire to 74LS373 pin 11 (side 2 of the board) as shown.

8. Please verify rework to ensure proper operation of the board.

Board layout:

7416

.01 UF

U10

74180

RP4 - BUSSED   220/330

RP5 - BUSSED   220/330

PIN 1

DIR

74LS640   U11

-REQ   REQ   -OUT

74LS14   U1

PIN 1

C18   0.01UF

0.01UF   C19   R12   1K

C13   .01UF

RP2 - BUSSED   10K

1K   R8

74LS175   U16

PORT 270   PORT 170

P2   /A7
/A6
/A5
74LS540   /A4
/A3
/A2
U15   /A1
/A0

/RESET
+MEM R

74LS574   U9

.01UF   C17

GAL Z67   74LS30   U14

+I/O R

-RESET

Side 2

74LS273   U21

C15   .01UF

Z-37   DISABLE   Z-67

ENABLE

U26

C20   .01UF

74LS04   U25

+MEM W
CLOCK 2
+I/O W

1K   R9   1K   R10

PIN 1

74LS540   74LS540

/D7